AKTPEERLESS

PRE-RENOVATION ASBESTOS AND HAZARDOUS MATERIALS SURVEY

Highland Park Model T Site
14534 Woodward Avenue, Highland Park, Michigan

PREPARED FOR Tetra Tech, Inc.
1 South Wacker Drive, 37th Floor
Chicago, Illinois 60606

PROJECT # 3010f2-2-194

DATE December 19, 2014
Revised February 12, 2015

Table of Contents

AKTPEERLESS

APPENDICES

AKTPEERLESS

PRE-RENOVATION ASBESTOS AND HAZARDOUS MATERIALS SURVEY

Highland Park Model T Administration Building and Garage
14534 Woodward Avenue Highland Park, Michigan
AKT Peerless Project No. 3010f2-2-194

1.0 Introduction

Tetra Tech, Inc. retained AKT Peerless to conduct a pre-renovation asbestos and hazardous materials survey of the Highland Park Model T Administration Building and Garage facility located at 14534 Woodward Avenue Highland Park, Michigan. AKT Peerless' scope of work is based on its Proposal No. PF-16449-1 dated October 6, 2014 and the terms and conditions of the agreement.

2.0 Purpose

The purpose of AKT Peerless' pre-renovation asbestos survey is to (a) identify and locate suspect ACM, (b) establish a sampling plan, based on homogeneous and functional areas, to sample significant sources of friable and non-friable suspect ACM, (c) quantify the amount of asbestos ACM identified at the property, and (d) prepare a final report documenting confirmed ACM and Presumed Asbestos Containing Materials (PACM) quantities, locations, and laboratory results.

The hazardous/other regulated materials survey was conducted to identify other non-asbestos materials that require removal and disposal or recycling prior to renovation of the structure.

2.1 Scope of Work – Asbestos Survey

The scope of work for AKT Peerless' pre-renovation asbestos survey is based on the Asbestos School Hazard Abatement Reauthorization Act (ASHARA). The purpose of ASHARA is to extend the Asbestos Hazard Emergency Response Act (AHERA) inspection and management requirements to commercial and industrial buildings.

Survey activities were completed in accordance with the following protocol:

- The inspection was performed to determine the extent and location of suspect ACM present in the subject building. This survey was qualitative and quantitative in that an attempt was made to locate accessible friable and non-friable ACM areas, as well as estimate the quantity of ACM. Bulk samples of suspect ACM were collected by a Michigan-accredited Asbestos Building Inspector.
- Bulk samples were collected from each homogeneous material area encountered in accordance with EPA-recommended sampling guidelines. If a suspect material was not sampled, then it was presumed asbestos-containing (PACM).
- Samples of suspect ACM were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP)-accredited laboratory for analysis via Polarized Light Microscopy and dispersion staining (PLM) following the EPA Test Method (EPA-600/M4-82-020) and the National Institute of Standards and Technology (NIST) Bulk Asbestos Handbook.

- Laboratory analysis was performed using first positive stop analysis methodologies. First positive stop involves analyzing samples by homogeneous material groupings. Laboratory analyses proceeded sample by sample, within each homogeneous material grouping, until a sample was determined to be asbestos containing.
- Although PLM is currently the accepted and approved method for analysis, the method is limited in its ability to provide a quantitative result when asbestos represents a small fraction of the material. Current USEPA guidelines specify that when initial laboratory analysis of friable materials detects the presence of asbestos in a quantity between less than one percent (or trace) and less than ten percent, a verification analysis using the point counting analytical method may be considered. If the client does not exercise the option to conduct point counting, the material in question will be considered ACBM as identified by PLM analysis.

2.2 Scope of Work – Hazardous/Universal Waste Survey

The purpose of AKT Peerless' hazardous materials survey was to: (a) identify and locate potentially hazardous materials (other than asbestos) that may require removal and disposal, or other special consideration, before the building renovation demolition occurs (often these materials are banned from landfill disposal); and (b) prepare a final summary report documenting the potentially hazardous materials.

Building renovation work involving lead paint coated building components is regulated under the MIOSHA Lead in Construction Standard (Part 603) and applies when painted surfaces have been identified to contain lead in any detectable concentration (i.e., lead-based paint is not defined under OSHA). There is currently no level of lead in paint for which the Lead in Construction Standard does not apply. Representative painted surface coatings were chip-sampled for analysis of lead content.

2.3 Clarifications and Exceptions

AKT Peerless uses trained and licensed inspectors in attempting to locate and identify materials potentially containing asbestos. AKT Peerless identified potential asbestos materials within the subject building; there may be additional asbestos materials that were not found because they were not accessible to the inspector. Asbestos was used in a variety of building components and in many types of materials in the construction of buildings. In some of these components asbestos may be present, not as an intentional ingredient, but as a contaminant.

During execution of this survey, the work was performed using commercially reasonable best efforts consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions.

QUANTITIES OF IDENTIFIED ACM REPORTED IN THIS DOCUMENT ARE PROVIDED FOR REFERENCE ONLY AND SHOULD NOT BE RELIED UPON FOR ABATEMENT BIDDING PURPOSES. AKT Peerless strongly cautions against utilizing the reported material quantities without field verification. It is expected that contractors will utilize their own quantities when preparing bid pricing. Further, it should be anticipated that there will be other costs associated with the construction/asbestos abatement including engineering and testing fees. For planning purposes, AKT Peerless recommends an allowance of 20 percent for these costs.

AKT Peerless encountered the following building-specific limitations during the asbestos and hazardous survey:

- The crawl space below the building was inaccessible and will require confined space entry procedures to properly evaluate. Pipe insulation was visible through limited accesses but the quantity of pipe insulation and potential pipe insulation debris could not be determined. Other ACM sources may also be present in the crawl space.
- The interior of the building is significantly deteriorated throughout and in many locations the architectural ceilings and walls have collapsed. The quantity of debris prevented complete inspection of such areas.
- No dismantling of electrical, mechanical, or hydraulic equipment was conducted.
- Limited destructive access behind plaster, drywall, block, or other similar hard surfaces was performed.

3.0 Survey Methodology

The following sections outline the approach, procedures, and methods employed by AKT Peerless to conduct the ACM Survey of the subject property.

3.1 Building Plans

AKT Peerless was not provided with floor plan drawings showing proposed renovations to the property. As-built drawings were not available.

3.2 Description of Homogeneous Areas

AKT Peerless identified Homogeneous Areas (HA) based on appearances and type of materials observed. As defined under AHERA, a homogeneous area is an area (material) that appears similar throughout in terms of its color, texture, and date of material application.

In addition, building materials suspect for asbestos content are also described based on one of three following material classifications:

Surfacing Materials

A material that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes. Glued-on ceiling panels are interpreted by the State of Michigan as a surfacing material.

Thermal System Insulation

A material that is applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat lost or gain, or water condensation, or for other purposes.

Miscellaneous Materials

A building material on structural components, structural members or fixtures, such as floor and ceiling panels, and does not include surfacing material or thermal system insulation.

Listed materials are designated as either friable or non-friable based on the characteristics of the materials as they existed in the building at the time of the survey. Non-friable materials may be rendered friable if subjected to improper removal or demolition techniques.

The homogeneous areas (i.e., materials) inventory is included in Appendix A.

3.3 Description of Functional Spaces

During the asbestos survey, AKT Peerless identified various Functional Spaces (FS) in the building. In general, functional spaces are defined as spatially distinct units or areas within the building, which contain identifiable populations of building occupants. Functional spaces can also include storage spaces, mechanical rooms, closets and services areas, etc. However, a functional space can also be delineated based on general building layout, facility use factors, and can be assigned using various arbitrary factors that were useful in the completion of this survey. Functional Space designations for the subject structure are included in Appendix B. **In addition, functional space designations are field-marked in the structure.**

3.4 Bulk Sample Material Inventory

Based on the homogeneous materials and functional spaces identified during this pre-renovation survey, AKT Peerless collected 61 bulk samples for analysis. In general, AKT Peerless' sampling protocol consisted of (a) wetting or misting the sample as appropriate, (b) extracting a sample with a clean knife, chisel, or coring tool and (c) placing the sample into a sealed polyethylene sample container.

The sampling protocol used to procure the appropriate number of samples for an identified homogeneous area of suspect ACM is based on sampling guidelines outlined under AHERA and is detailed as follows:

Surfacing Materials (SM)

Surfacing materials consist of building materials that have been spray-on, troweled-on, or otherwise applied to building surfaces for acoustical, fireproofing, or decorative purposes. Samples of suspect surfacing materials were collected using the following sampling guidelines:

Size of Sampling Area	USEPA Recommended Number of Samples to Collect	Minimum Number of Samples to Collect
Less than 1,000 square feet	9	3
Between 1,000 & 5,000 square feet	9	5
Greater than 5,000 square feet	9	7

Sample locations selected were generally evenly distributed and representative of the entire survey area.

Thermal System Insulation (TSI)

This category consists of insulation used to inhibit heat transfer or prevent condensation on mechanical system components. For thermal system insulation, the number of samples and the sample locations was dependent on access considerations and the likelihood of asbestos content.

Miscellaneous Materials (MM)

Miscellaneous materials consist of interior and exterior building components and are typically located on structural components, structural members, or fixtures, such as floor tiles, ceiling panels and roofing materials. Sampling of these materials was performed by delineation of homogeneous areas and

functional spaces. Based on the number of different materials identified, suspect materials were analyzed based on multiple samples per material.

Assumed Asbestos Materials

Roofing membranes and shingles and fire doors were not sampled but were assumed asbestos-containing.

3.5 Laboratory Analytical Procedures

All samples collected were submitted to APEX Research, Inc. (APEX) of Whitmore Lake, Michigan for analysis. APEX is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Samples were submitted under chain-of-custody guidelines to ensure proper handling and delivery of the samples. The samples were analyzed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the following USEPA guidance document Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, dated July, 1993.

The USEPA defines ACM as those materials that contain greater than one percent asbestos. Friable materials are defined as those that can be crumbled or reduced to powder by hand pressure. The National Emission Standards for Hazardous Air Pollutants (NESHAP) for asbestos, dated November 1990 stipulates that any friable material identified as containing asbestos in concentrations greater than one percent must be considered ACM.

Materials containing one (1) percent or less asbestos are generally considered non-asbestos-containing and therefore are not regulated by NESHAP. The OSHA definition of ACM is similarly any material containing more than one (1) percent asbestos. However, specific work practices must be followed under OSHA regulations for materials containing less than one percent asbestos if an individual layer exceeds one percent. Under the PLM method, percentages and types of fibrous components in these samples were determined by visual estimation of the amount of fibrous materials versus the total amount of material present.

Current USEPA guidelines specify that when initial laboratory analysis of friable or non-friable materials regulated under NESHAP detects the presence of asbestos in a quantity between less than one percent (or trace) and less than ten percent, a verification analysis using the point counting analytical method should be considered or the material in question should be treated as ACBM as identified by PLM analysis. In addition, PLM has a high error rate for floor tile and additional confirmatory analyses are recommended for older floor tiles determined to be non-asbestos.

AKT Peerless utilized the “positive-stop” method of sample analyses. In this method, the analyses of a homogeneous material is stopped on a group of samples once the first positive (e.g., greater than 1% asbestos) sample is analyzed. According to the USEPA, if one sample of a homogenous material is identified to be asbestos-containing, the entire material must be considered asbestos-containing.

Based on appearances and type of materials, suspect ACMs were grouped into homogeneous areas and functional spaces as appropriate based on apparent age and similarity in texture and color. Upon completion of these activities, representative bulk samples of the suspect materials were collected. A summary of bulk sample results is included in Appendix C.

Bulk Sample Laboratory Reports with Chain-of-Custody records for the structure are presented in Appendix D.

4.0 Survey for Other Potentially Hazardous Materials

AKT Peerless also conducted an inspection of the facility to identify the existence of other potentially hazardous materials that may exist within containers such as drums, basins, tanks and in general storage areas. Representative paint coatings were also sampled and analyzed for lead and cadmium. A description of the survey procedures used as part of this survey and its findings are provided in the following section of this report.

4.1 Hazardous Materials/Universal Waste Inspection

AKT Peerless conducted an inspection of the building to identify the existence of potentially hazardous materials and/or wastes that may require removal and disposal, or other special consideration, before the building demolition occurs.

No intrusive investigation or use of remote sensing equipment was used. With the exception of paint coatings, no sampling of other hazardous materials was performed.

The survey was conducted to identify universal hazardous wastes or regulated materials/wastes. The building was inspected for potential hazardous materials such as PCB or oil containing light ballasts, batteries, chlorofluorocarbon-containing equipment, smoke detectors, exit signs, and mercury light tubes and switches. The survey of lighting/alarm systems comprised a visual inspection of the exterior of accessible emergency, light and exit sign fixtures, panels or components for possible PCB-containing ballast systems, mercury vapor lighting fixtures, batteries or other hazardous materials. If present, significant areas of oil-staining were also noted. No intrusive examination or contact with manufacturers, sample collection, or testing of this equipment was performed. All light ballasts were assumed to contain PCBs. No sampling of any hazardous component materials was performed.

An inventory of hazardous/universal waste materials and containers is included in Appendix E.

4.2 Representative Lead Paint Sampling

A total of 19 chip samples were collected for analysis of lead in representative painted surface coatings. AKT Peerless did not attempt to sample or inventory all painted surfaces and components but rather sampled paint from the main systems of paint based on surface coverage area. Further, paint coatings were not discernable on some surfaces due to excessive deterioration. Paint chip sample locations are field-marked in the structure. Sample location descriptions in the following table include one of four direction designations: Side ‘A’ references the west wall of a space, Side ‘B’ references the north wall, Side ‘C’ the east wall and Side ‘D’ the south wall. **Paint sample locations are field-marked in the structure.**

Paint chip samples were submitted under chain-of-custody control to an accredited laboratory for analysis by the EPA 0200.2-M/EPA 6020A Method. Analytical results are summarized in the following table:

Sample No.	Component	Sample Location	Paint Color	Lead Content %	Substrate
HPMT-LP01-111114	Wall	FS 1-1, Side C, SE Corner	Beige & Yellow	1.9	Plaster
HPMT-LP02-111114	Window	FS 1-22, Side A, SW Corner	Blue & White	0.36	Metal
HPMT-LP03-111114	Wall	FS 1-18, Side B	Green & Tan	0.22	Plaster
HPMT-LP04-111114	Baseboard	FS 1-1, Side B	Black	0.33	Wood
HPMT-LP05-111114	Wall	FS 219-3, Side D, SE Corner	Beige, Green & Yellow	0.27	Plaster
HPMT-LP06-111114	Wall	FS 2-27, Side B	Light Brown, Green & Tan	0.19	Metal
HPMT-LP07-111114	Wall	FS 2-24, Side A, North Portion	Beige & Green	18	Wood
HPMT-LP08-111114	Exterior Window	FS 206-1, Side C, NE Corner	White	18	Metal
HPMT-LP09-111114	Wall	FS 206-2, Side C, Center	Brown, Green & Tan	4.2	Plaster
HPMT-LP10-111114	Wall	FS 1-21, Third Floor Level, Side B	Beige & Dark Green	6.7	Plaster
HPMT-LP11-111114	Wall	FS 3-37, Side C	Green & Gray	1.1	Plaster
HPMT-LP12-111114	Radiator	FS 3-37, Side C , 3rd Radiator from N. Wall	Tan, White, Silver & Gray	0.43	Metal
HPMT-LP13-111114	Exterior Window	FS 3-37, Side A	Gray	4.3	Wood
HPMT-LP14-111114	Wall	FS 3-42, Side B	Brown & Dark Gray	0.58	Plaster
HPMT-LP15-111114	Wall Partition	FS 414-3, Side A	Green & Beige	0.095	Metal
HPMT-LP16-111114	Wall Partition	FS 400, Side A	Brown Wood Grain Pattern	8.9	Metal
HPMT-LP17-111114	Wall	FS 4-46, Side D	Blue, Brown & Green	0.63	Plaster
HPMT-LP18-111114	Newel Post	FS 1-21, Landing Between 3rd & 4th Floors	Green	3.6	Metal
HPMT-LP19-111114	Garage Beams and Trusses	FS 1-22, Side C, 3rd Column from S. End	White, Gray & Blue	0.90	Metal

Lead-based paint Laboratory analytical data and chain-of-custody documentation associated with paint sampling is included in Appendix F.

5.0 Conclusions

AKT Peerless was retained to conduct a pre-renovation Asbestos Survey of the Highland Park Model T Administrative Building and Garage at 14534 Woodward Avenue, Highland Park, Michigan. The purpose of the survey was to determine the location of ACMs and hazardous/universal waste materials that will require special handling procedures or removal activities before conducting general building renovation activities. The following sections of this report summarize the findings of the Asbestos Survey.

5.1 Summary of Identified Asbestos Containing Materials

HA No.	Material Description	Material Location(s)	Material Class	Approximate Quantity	Friability
2	Pipe Insulation on 0-2" Lines	Throughout	TSI	3,600 LF	F
3	Mudded Pipe Fittings on 0-2" Lines	Throughout	TSI	250 LF	F
5	Black 9" x 9" Floor Tiles (tile is ACM, mastic is non-ACM)	Throughout 1st, 2nd and 4th Floors	MM	21,500 SF	NF
6	Pipe Insulation on 2-4" Lines	FS-1-4, FS-1-5, FS-1-8, FS-1-13, FS-219-1	TSI	125 LF	F
7	Mudded Pipe Fittings on 2-4" Lines	FS-1-13, FS-201-1, Penthouse	TSI	10 Fittings	F
8	Pipe Insulation Debris	FS-1-5, FS-1-7, FS-1-18	TSI	3 cubic yards	F
15	6" x 6" Tan Floor Tile	Throughout 3rd Floor	MM	9,600 SF	NF
18	Cloth Duct Isolation Joints	FS-219-1, FS-2-27, FS-206-1, FS-3-36, FS-3-45, FS-411-1, FS-406-1, FS-402-1, Penthouse	TSI	9 Joints	F
21	Exterior Window Frame Caulk	Exterior	MM	25 SF caulk, (275 window units)	NF
22	Door Frame Caulk	Exterior	MM	5 SF caulk, (6 Doors)	NF
23	Roofing	Exterior	MM	Not Estimated	NF
24	Fire Doors	FS-1-4, FS-1-5, FS-1-7	MM	8 doors and frames	NF
25	Old Electrical Panels	FS1-11, FS1-16, FS3-36, FS4-46, Penthouse	MM	8 Panels	NF

Photographs of some representative asbestos materials are included in Appendix G.

5.2 Hazardous/Universal Waste Materials and Lead-based Paint

Hazardous/universal waste materials were identified at the site and included fluorescent light fixtures with tubes and ballasts, air conditioning units, thermostats, vacuum tubes, oil-filled machines, and lube oil.

The estimated area of lead-containing paint in the Model T administration building and garage is approximately 200,000 square feet on all painted surfaces, including approximately 26,500 square feet of lead paint debris on floor surfaces that do not contain asbestos floor tiles. Cleanup of lead contamination and debris on floors that also contain ACM floor tiles would be performed during asbestos abatement.

Lead was identified above the analytical limit of detection in all of the collected samples. Because this facility is not housing, activities that disturb paint coatings that contain lead above detection in non-housing structures are regulated by the MIOSHA Lead in Construction Standard (Part 603). Any interior demolition or restoration activity that contacts or disturbs paint coatings must follow regulatory requirements. A negative exposure assessment should be conducted for any personnel disturbing lead-containing paint coatings either on the surfaces or comingled with building debris.

6.0 Recommendations/Work Plan

Removal and cleanup of asbestos and other regulated materials in the structure must be completed according to applicable regulations. Further, properly trained and state-licensed/accredited firms and personnel must be utilized to conduct such work. Following are general recommendations only and should not be construed as a detailed project design or specification.

Asbestos Containing Materials

- Thermal System Insulation (TSI) – pipe insulation straight runs and mudded fittings must be removed by the glovebag method or within a negative pressure containment system utilizing wet methods according to MIOSHA and MDEQ (NESHAP) regulations. Final air clearance sampling will be required in regulated ACM removal area.
- Floor Tiles – must be removed within a negative pressure containment system. Final air clearance sampling will be required in ACM tile removal area. Floor tiles may be removed in the same regulated work area where TSI is removed.
- Duct Cloth Isolation Joints – may be removed intact using wet methods and packaged for disposal. A drop cloth should be placed below the work area.
- Window Caulk – may be removed intact from the structure with the ACM caulk in place. Before removal, the windows must be prepped with poly sheeting and tape or other method to ensure the caulk does not dislodge from the frame.
- Door Frame Caulk – Where possible, door frame caulk should be removed intact using drop cloths and wet methods. If caulk cannot be removed intact, then mini-containment with negative pressure methods must be utilized.
- Fire Doors and Electrical Panels – Fire doors and electrical panels may be removed intact, packaged and labeled for disposal.
- ACM Debris – extensive deterioration of the building interior has caused asbestos materials to become mixed with other building component debris. Asbestos debris must be removed for proper disposal.

Universal Waste Items

- Fluorescent Light Tubes – Light tubes must be removed, sleeved and sent to a recycling facility.
- Ballasts – PCB-containing ballasts must be removed, packaged and labeled for proper disposal in metal drums.
- Refrigerants (CFCs) – must be recovered from air conditioning units and drinking fountains by a qualified firm. Equipment from which CFC's have been recovered must be labeled.
- Elevator Control Panels – panels should be removed intact for disposal as mercury-containing equipment or the individual components, e.g., vacuum tubes, switches, etc. must be removed and packaged for proper disposal.
- Thermostats – must be collected for disposal as mercury-containing.
- Lubrication Oils – lube oils must be properly collected and packaged for disposal.
- Lead paint debris – because of extensive deterioration of interior paint coatings, lead paint debris is comingled with other building debris throughout the structure. TCLP testing for lead in representative debris should be conducted to determine proper disposal.

7.0 Cost Estimate

The estimated cost range to remove asbestos-containing materials and universal waste items is $110,000 to $125,000. An additional 20% should be included for engineering, oversight, monitoring and closeout reporting. A 15 % contingency should also be added to the estimate. Including engineering, oversight, monitoring, closeout reporting and contingency, the total cost range estimate for removal of asbestos and universal waste materials is $151,800 to $172,500. The cost estimate does not include abatement of roofing ACM as part of environmental abatement. ACM roofing removal and replacement is typically handled by properly trained roofing contractors.

8.0 Limitations

The information and opinions obtained in this report are for the exclusive use of Tetra Tech, Inc., U.S. EPA and the Woodward Avenue Action Association (collectively the CLIENT) its affiliates, subsidiaries, and their successors, assigns, and grantees. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without your written consent or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and CLIENT.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages. Although AKT Peerless believes that results contained herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive or that the information provided by CLIENT, its affiliates, subsidiaries, and their successors, assigns, and grantees, or third parties is complete or accurate.

9.0 Signatures

The following professionals prepared this report.

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Appendix A

Homogeneous Area Summary

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HOMOGENEOUS AREA SUMMARY

CLIENT: Tetra Tech
PROJECT NO: 3010f2-2
PROJECT: HPMT
Highland Park, Michigan

HA No.	Material Description	Material Location(s)	Material Class	Approx. Quantity	Friability
01	Plaster	Throughout	SM	95,000 SF	Friable
02	**Non-Fiberglass Pipe Insulation on 0-2" Lines**	**Throughout**	**TSI**	**3,600 LF**	**Friable**
03	**Mudded Pipe Fittings on 0-2" Lines (ACM and Fiberglass Lines)**	**Throughout**	**TSI**	**250 Fittings**	**Friable**
04	12" Pinhole Ceiling Tiles	FS1-1	MM	100 SF	Friable
05	**Black 9"x9" Floor Tiles** w/ Mastic	**Throughout 1st, 2nd and 4th Floors**	**MM**	**21,500 SF**	**Non-friable**
06	**Non-Fiberglass Pipe Insulation on 2-4" Lines**	**FS1-4, FS1-5, FS1-8, FS1-13, FS 219-1, Crawlspace**	**TSI**	**125 LF**	**Friable**
07	**Mudded Pipe Fittings on 2-4" Lines**	**FS1-13, FS201-1, Penthouse**	**TSI**	**10 Fittings**	**Non-friable**
08	**Pipe Insulation Debris**	**FS1-5, FS1-7, FS1-18**	**TSI**	**3 cubic yards**	**Friable**
09	Brown Sheeting on Floor	FS1-19	MM	60 SF	Non-friable
10	Cloth Electrical Tape	FS1-20	MM	5 SF	Non-friable
11	Decorative Plaster	FS1-1, FS1-2, FS1-3, FS207-1, FS2-27, FS2-28, FS2-29	SM	3,100 SF	Non-friable
12	Garage Window Glazing	Garage	MM	28 windows; 6 SF	Non-friable
13	Material Inside Metal Partitions	Throughout 2nd Floor	MM	NE	Friable
14	Interior Window Glazing (wood and metal office partitions)	FS1-4 and Throughout 2nd and 4th Floors	MM	295 Windows; 50 SF	Non-friable
15	**6" x 6" Tan Floor Tile**	**Throughout 3rd Floor**	**MM**	**9,600 SF**	**Non-friable**
16	Wall Panels	Throughout 2nd and 4th Floor	MM	NE	Non-friable
17	Drywall/Mud Compound	FS2-29, FS2-30	SM	175 SF	Friable

Tabulated By: JCF

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HOMOGENEOUS AREA SUMMARY

CLIENT: Tetra Tech
PROJECT NO: 3010f2-2
PROJECT: HPMT
Highland Park, Michigan

HA No.	Material Description	Material Location(s)	Material Class	Approx. Quantity	Friability
18	**Cloth Duct Isolation Joints**	**FS219-1, FS2-27, FS206-1, FS3-36, FS3-45, FS411-1, FS406-1, FS402-1, Penthouse**	**TSI**	**9 Joints**	**Friable**
19	White Flooring	FS4-49	MM	100 SF	Non-friable
20	12" Pinhole Ceiling Tiles w/ Glue Pods	FS3-45	MM	550 sf	Non-friable
21	**Exterior Window Frame Caulk**	**Exterior**	**MM**	**275 windows, 25 SF of caulk**	**Non-friable**
22	**Door Frame Caulk**	**Exterior**	**MM**	**6 Doors, 5 SF of caulk**	**Non-friable**
23	**Roofing**	**Exterior**	**MM**	**NE**	**Non-friable**
24	**Fire Doors**	**FS-1-4, FS1-5, FS1-7**	**MM**	**8 Doors and Frames**	**Non-friable**
25	**Old Electrical Panels**	**FS1-11, FS1-16, FS3-36, FS4-46, Penthouse**	**MM**	**8 Panels**	**Non-friable**

HA= Homogeneous Area
FS = Functional Space
SF= square feet
NE = Not Estimated
MM = Miscellaneous Material
SM = Surfacing Material
TSI = Thermal System Insulation
Bold = Asbestos Material

Tabulated By: JCF

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Appendix B

Functional Space Inventory

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FUNCTIONAL SPACE DESIGNATIONS

CLIENT: Tetra Tech
PROJECT NO: 3010f2-2
PROJECT: HPMT
Highland Park, Michigan

Functional Space (FS) No.	Description	Functional Space (FS) No.	Description	Functional Space (FS) No.	Description
FS-1-1	Large Southwest Showroom	FS-2-25b	Office, middle	FS-2-207-3	207 Suite Office #3
FS-1-2	West Center Office	FS-2-25c	southwest Office	FS-2-207-4	207 Suite Office #4
FS-1-3	Central Interior Office	FS-2-26	West Open Area	FS-2-207-5	207 Suite Office #5
FS-1-4	Northwest Office/Open Space	FS-2-27	West Center Office	FS-2-207-6	207 Suite Office #6
FS-1-5	North Center Space	FS-2-28	West Center Office	FS-2-207-7	207 Suite Office #7
FS-1-6	Northeast Space off Garage	FS-2-29	West Center Office interior	FS-2-207-8	207 Suite Office #8
FS-1-7	East Room	FS-2-31	Phone Closet	FS-2-207-9	207 Suite Office #9
FS-1-8	Small East Room	FS-2-32	Storage	FS-2-201-1	Suite 201, North Center Office
FS-1-9	East Men's Lavatory (small)	FS-2-33	Storage off East Men's Lavatory	FS-2-201-2	Suite 201, North East Office
FS-1-10	East Women's Lavatory	FS-2-34	East Men's Lavatory	FS-2-201-3	Suite 201, Vault
FS-1-10a	East Women's Lavatory	FS-2-35	Breaker Room	FS-200	200 Suites N/S Hallway
FS-1-11	Janitor Closet	FS-219-1	Suite 219, North Space	FS-2-30	Office Suite, East Side
FS-1-12	East Entrance and Stairwell	FS-219-2	Suite 219, Center	FS-206-1	Large Office East Center
FS-1-13	Men's Lavatory	FS-219-3	Suite 219, South	FS-206-2	Lavatory (women's) Wash Area
FS-1-14	Phone Booths	FS-3-36	Southwest Open Area	FS-206-3	Women's Lavatory
FS-1-15	Small Elevator (inacessible)	FS-3-37	North Open Area	FS-208	Hallway, top of main stairs
FS-1-16	Utility Closet	FS-3-38	East Women's Lavatory Entrance	FS-414-1	Suite 414 South Stair Foyer
FS-1-17	Freight Elevator	FS-3-39	Women's Lavatory	FS-414-2	Center Office
FS-1-18	Southeast Office North	FS-3-40	Janitor	FS-414-3	Suite 414, East Office
FS-1-19	Southeast Office Middle	FS-3-41	Storage Closet	FS-413-1	Office
FS-1-20	Southeast Office South	FS-3-42	Men's Lavatory Entrance	FS-414-3	Suite 414, East Office
FS-1-21	South Stairwell	FS-3-43	Men's Lavatory Entrance	FS-413-1	Office
FS-1-22	Garage	FS-3-44	Utility Closet	FS-413-2	Mechanical
FS-1-23	Crawl Space (confined)	FS-3-45	Southeast Office Open Area	FS-411-1	Suite 411 Open Area
FS-2-24	North-South Hallway	FS-2-207-1	Primer Lab	FS-409-1	Suite 409, East Office
FS-2-25a	Office Suite, south center	FS-2-207-2	207 Suite Office #2	FS-409-2	Suite 409, West Office
FS-407-1	Suite 407, Hallway	FS-4-50	Men's Room Entry	FS-405-1	Suite 405, East Office
FS-407-2	Suite 407, South Office	FS-4-51	Men's Lavatory	FS-405-2	Suite 405, West Office
FS-407-3	Suite 407, North Office	FS-4-52	Roof/Penthouse Access	FS-403-1	Suite 403, East Office
FS-406-1	Suite 406, East Office	FS-412-1	Suite 412	FS-403-2	Suite 403, West Office
FS-406-2	Suite 406, West Office	FS-P-1	Penthouse	FS-401-1	Executive Suite 401 Reception

Tabulated By: JCF

AKTPEERLESS

FUNCTIONAL SPACE DESIGNATIONS

CLIENT: Tetra Tech
PROJECT NO: 3010f2-2
PROJECT: HPMT
Highland Park, Michigan

Functional Space (FS) No.	Description	Functional Space (FS) No.	Description	Functional Space (FS) No.	Description
FS-401-2	Executive Suite 401, Southwest Office				
FS-401-3	Executive Suite 401, Northwest Corner Office				
FS-401-4	Executive Suite 401, Key Room				
FS-401-5	Executive Suite 401, Lavatory				
FS-401-6	Executive Suite 401, North Center Office				
FS-401-7	Executive Suite 401, Northeast Corner Office				
FS-401-8	Executive Suite 401, Phone Closet				
FS-401-9	Executive Suite 401, East Office				
FS-400	Main N/S Corridor				
FS-402-01	Suite 402, West Office				
FS-402-02	Suite 402, East Office				
FS-404-01	Suite 404, West Office				
FS-4-46	Women's Lavatory Entry				
FS-4-47	Women's Lavatory				
FS-4-48	Janitor				
FS-4-49	Telephone Closet				

Tabulated By: JCF

Appendix C

Bulk Sample Results Summary

AKTPEERLESS

LABORATORY RESULTS SUMMARY

CLIENT: Tetra Tech, Inc.
PROJECT NO: 3010f2-2-194
PROJECT: 14534 Woodward Ave
Highland Park, Michigan

HA No.	Material Description	Sample Number	Asbestos Content	Sample Location	Comments
01	Plaster	HPMT-AC01-111714	NAD	FS-1-21	
		HPMT-AC02-111714	NAD	FS-1-2	
		HPMT-AC03-111714	NAD	FS-2-25C	
		HPMT-AC04-111714	NAD	FS-219-3	
		HPMT-AC05-111714	NAD	FS-2-32	
		HPMT-AC06-111714	NAD	FS-3-36	
		HPMT-AC07-111714	NAD	FS-3-37	
		HPMT-AC08-111714	NAD	FS-3-38	
		HPMT-AC09-111714	NAD	FS-402-1	
02	**Pipe Insulation 0-2" Line**	**HPMT-AC10-111714**	**20% CHR, 2% AMO**	**FS-1-21**	**Sample AC12 collected the 4th floor landing in 1-21 stairwell**
		HPMT-AC11-111714	**Not Analyzed**	**FS-2-33**	
		HPMT-AC12-111714	**Not Analyzed**	**FS 1-21**	
03	**Pipe Fittings 0-2" Lines**	**HPMT-AC13-111714**	**45% CHR**	**FS-2-27**	
		HPMT-AC14-111714	**Not Analyzed**	**FS-3-36**	
		HPMT-AC15-111714	**Not Analyzed**	**Penthouse**	
04	12" Pinhole Ceiling Tile	HPMT-AC16-111714	NAD	FS-1-1	
		HPMT-AC17-111714	NAD	FS-1-1	
05	**Black 9" x 9" Floor Tile**	**HPMT-AC18-111714**	**Floor Tile 12% CHR**	**FS-1-4**	
		HPMT-AC18-111714	Mastic NAD	FS-1-4	
		HPMT-AC19-111714	**Floor Tile NA**	**FS-2-25B**	
		HPMT-AC19-111714	Mastic NAD	FS-2-25B	
06	**Pipe Insulation 2-4" Line**	**HPMT-AC20-111714**	**10% CHR**	**FS-1-5**	
		HPMT-AC21-111714	**Not Analyzed**	**Penthouse**	
		HPMT-AC22-111714	**Not Analyzed**	**Penthouse**	
07	**Pipe Fittings on 2-4" Lines**	**HPMT-AC23-111714**	**50% CHR**	**Penthouse**	
		HPMT-AC24-111714	**Not Analyzed**	**Penthouse**	
		HPMT-AC25-111714	**Not Analyzed**	**Penthouse**	

Tabulated By: JCF

AKTPEERLESS

LABORATORY RESULTS SUMMARY

CLIENT: Tetra Tech, Inc.
PROJECT NO: 3010f2-2-194
PROJECT: 14534 Woodward Ave
Highland Park, Michigan

HA No.	Material Description	Sample Number	Asbestos Content	Sample Location	Comments
08	**Pipe Insulation Debris**	HPMT-AC28-111714	**10% CHR, 5% AMO**	**FS-1-7**	
		HPMT-AC29-111714	**Not Analyzed**	**FS-1-7**	
09	Floor Sheeting, Brown	HPMT-AC31-111714	NAD	FS-1-19	
		HPMT-AC32-111714	NAD	FS-1-19	
10	Cloth Electrical Tape	HPMT-AC33-111714	NAD	FS-1-20	
		HPMT-AC34-111714	NAD	FS-1-20	
		HPMT-AC35-111714	NAD	FS-1-20	
11	Decorative Plaster	HPMT-AC38-111714	NAD	FS-1-1	
		HPMT-AC39-111714	NAD	FS-1-1	
		HPMT-AC40-111714	NAD	FS-2-27	
		HPMT-AC41-111714	NAD	FS-2-28	
		HPMT-AC42-111714	NAD	FS-2-29	
		HPMT-AC43-111714	NAD	FS-207-7	
		HPMT-AC44-111714	NAD	FS-207-9	
12	Executive Garage Window Glazing	HPMT-AC45-111714	NAD	Exec. Garage	
		HPMT-AC46-111714	NAD	Exec. Garage	
13	Insulation Inside Metal Partitions	HPMT-AC47-111714	NAD	FS-219-1	
		HPMT-AC48-111714	NAD	FS-219-2	
14	Interior Window Glazing	HPMT-AC49-111714	NAD	FS-219-2	
		HPMT-AC50-111714	NAD	FS-2-27	
15	**6" x 6" Tan/Red Floor Tile**	**HPMT-AC51-111714**	**Tan Floor Tile-CHR 10%**	**FS-3-36**	
		HPMT-AC51-111714	Mastic NAD		
		HPMT-AC52-111714	**Tan Floor Tile-Not Analyzed**	**FS-3-37**	
		HPMT-AC52-111714	Mastic NAD		
		HPMT-AC52-111714	**Red Floor Tile-10% CHR**		

Tabulated By: JCF

AKTPEERLESS

LABORATORY RESULTS SUMMARY

CLIENT: Tetra Tech, Inc.
PROJECT NO: 3010f2-2-194
PROJECT: 14534 Woodward Ave
Highland Park, Michigan

HA No.	Material Description	Sample Number	Asbestos Content	Sample Location	Comments
16	Wall Panels	HPMT-AC53-111714	NAD	FS-219-2	
		HPMT-AC54-111714	NAD	FS-2-23	
17	Drywall	HPMT-AC55-111714	NAD	FS-2-29	
		HPMT-AC56-111714	NAD	FS-2-30	
		HPMT-AC57-111714	NAD	FS-2-30	
18	White Flooring	HPMT-AC61-111714	NAD	FS-3-41	
		HPMT-AC62-111714	NAD	FS-3-41	
19	Glue Pods on 12" Pinhole Ceiling Tile	HPMT-AC63-111714	NAD	FS-401-9	
		HPMT-AC64-111714	NAD	FS-401-9	
20	**Exterior Window Frame Caulk**	**HPMT-AC65-111714**	**1.75% CHR (by Point Count)**	**Exterior**	
		HPMT-AC66-111714	**Not Analyzed**	**Exterior**	
21	**Door Frame Caulk**	**HPMT-AC67-111714**	**10% CHR**	**Exterior**	
		HPMT-AC68-111714	**Not Analyzed**	**Exterior**	
22	**Roofing**	HPMT-AC69-111714	Top Layer Tar NAD	Exterior	
		HPMT-AC69-111714	2nd Layer Felt NAD	Exterior	
		HPMT-AC69-111714	Bottom Layer Tar/Felt NAD	Exterior	
		HPMT-AC70-111714	Top Layer Tar NAD	**Exterior**	
		HPMT-AC70-111714	**2nd Layer Felt-25% CHR**	**Exterior**	

Notes

FS = Functional Space
SF = Square Feet
NE = Not Estimated
NAD = No Asbestos Detected
Bold = Indicates asbestos material
NA = Not Applicable
T = Tile
M = Mastic

Tabulated By: JCF

Appendix D

Bulk Samples Laboratory Reports and Chain of Custody Record

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 01 Cust. #: HPMT-AC01-111714 Material: Plaster Location: #1-21 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 01a Cust. #: HPMT-AC01-111714 Material: Mortar Location: #1-21 Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 56153 - 02 Cust. #: HPMT-AC02-111714 Material: Plaster Location: #1-2 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 02a Cust. #: HPMT-AC02-111714 Material: Mortar Location: #1-2 Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Hair - 1% Other - 99%
Lab ID #: 56153 - 03 Cust. #: HPMT-AC03-111714 Material: Plaster Location: #2-25C Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 03a Cust. #: HPMT-AC03-111714 Material: Mortar Location: #2-25C Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 2% Other - 98%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 04 Cust. #: HPMT-AC04-111714 Material: Plaster Location: #219-3 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 05 Cust. #: HPMT-AC05-111714 Material: Plaster Location: #2-32 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 05a Cust. #: HPMT-AC05-111714 Material: Mortar Location: #2-32 Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Hair - 2% Other - 98%

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 06 Cust. #: HPMT-AC06-111714 Material: Plaster Location: #3-36 Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Hair - 1% Other - 99%
Lab ID #: 56153 - 07 Cust. #: HPMT-AC07-111714 Material: Plaster Location: #3-37 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 07a Cust. #: HPMT-AC07-111714 Material: Mortar Location: #3-37 Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** Chrysotile - <1%	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 08 Cust. #: HPMT-AC08-111714 Material: Plaster Location: #3-38 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 08a Cust. #: HPMT-AC08-111714 Material: Mortar Location: #3-38 Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 56153 - 09 Cust. #: HPMT-AC09-111714 Material: Plaster Location: #402-1 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 09a Cust. #: HPMT-AC09-111714 Material: Mortar Location: #402-1 Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 56153 - 10 Cust. #: HPMT-AC10-111714 Material: Pipe Insulation 0-2" Line Location: #1-21 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 20% Amosite - 2%	Other - 78%
Lab ID #: 56153 - 11 Cust. #: HPMT-AC11-111714 Material: Pipe Insulation 0-2" Line Location: #2-33 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 12 Cust. #: HPMT-AC12-111714 Material: Pipe Insulation 0-2" Line Location: 4th Floor Landing Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 56153 - 13 Cust. #: HPMT-AC13-111714 Material: Pipe Insulation 0-2" Line Location: #2-27 Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 45%	Other - 55%
Lab ID #: 56153 - 14 Cust. #: HPMT-AC14-111714 Material: Pipe Fitting 0-2" Line Location: #3-36 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 15 Cust. #: HPMT-AC15-111714 Material: Pipe Fitting 0-2" Line Location: Penthouse Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 56153 - 16 Cust. #: HPMT-AC16-111714 Material: 12" Pinhole Ceiling Tile Location: #1-1 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Mineral Wool - 80% Other - 20%
Lab ID #: 56153 - 17 Cust. #: HPMT-AC17-111714 Material: 12" Pinhole Ceiling Tile Location: #1-1 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Mineral Wool - 80% Other - 20%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

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Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 18 Cust. #: HPMT-AC18-111714 Material: Black 9x9 Floor Tile Location: #1-4 Appearance: black,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **YES** Chrysotile - 12%	Other - 88%
Lab ID #: 56153 - 18a Cust. #: HPMT-AC18-111714 Material: Mastic Location: #1-4 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 19 Cust. #: HPMT-AC19-111714 Material: Black 9x9 Floor Tile Location: #2-25B Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 19a Cust. #: HPMT-AC19-111714 Material: Mastic Location: #2-25B Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 20 Cust. #: HPMT-AC20-111714 Material: Pipe Insulation 2-4" Line Location: #1-5 Appearance: brown,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 10%	Cellulose - 60% Other - 30%
Lab ID #: 56153 - 21 Cust. #: HPMT-AC21-111714 Material: Pipe Insulation 2-4" Line Location: Penthouse Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 22 Cust. #: HPMT-AC22-111714 Material: Pipe Insulation 2-4" Line Location: Penthouse Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 56153 - 23 Cust. #: HPMT-AC23-111714 Material: Pipe Fitting on 2-4" Lines Location: Penthouse Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 50%	Other - 50%
Lab ID #: 56153 - 24 Cust. #: HPMT-AC24-111714 Material: Pipe Fitting on 2-4" Lines Location: Penthouse Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 25 Cust. #: HPMT-AC25-111714 Material: Pipe Fitting on 2-4" Lines Location: Penthouse Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 56153 - 26 Cust. #: HPMT-AC28-111714 Material: Pipe Insulation Debris Location: #1-7 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 10% Amosite - 5%	Other - 85%
Lab ID #: 56153 - 27 Cust. #: HPMT-AC29-111714 Material: Pipe Insulation Debris Location: #1-7 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 28 Cust. #: HPMT-AC31-111714 Material: Brown Sheeting on Floor Location: #1-19 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 70% Other - 30%
Lab ID #: 56153 - 29 Cust. #: HPMT-AC32-111714 Material: Brown Sheeting on Floor Location: #1-19 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 70% Other - 30%
Lab ID #: 56153 - 30 Cust. #: HPMT-AC33-111714 Material: Cloth Electrical Tape Location: #1-20 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 70% Other - 30%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 31 Cust. #: HPMT-AC34-111714 Material: Cloth Electrical Tape Location: #1-20 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 70% Other - 30%
Lab ID #: 56153 - 32 Cust. #: HPMT-AC35-111714 Material: Cloth Electrical Tape Location: #1-20 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 70% Other - 30%
Lab ID #: 56153 - 33 Cust. #: HPMT-AC38-111714 Material: Decorative Plaster Location: #1-1 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 2% Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 34 Cust. #: HPMT-AC39-111714 Material: Decorative Plaster Location: #1-1 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 56153 - 35 Cust. #: HPMT-AC40-111714 Material: Decorative Plaster Location: #2-27 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 56153 - 36 Cust. #: HPMT-AC41-111714 Material: Decorative Plaster Location: #2-28 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 2% Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 37 Cust. #: HPMT-AC42-111714 Material: Decorative Plaster Location: #2-29 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 38 Cust. #: HPMT-AC43-111714 Material: Decorative Plaster Location: #207-7 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 56153 - 39 Cust. #: HPMT-AC44-111714 Material: Decorative Plaster Location: #207-9 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 40 Cust. #: HPMT-AC45-111714 Material: Executive Garage Window Glazing Location: Exec. Garage Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 56153 - 41 Cust. #: HPMT-AC46-111714 Material: Executive Garage Window Glazing Location: Exec. Garage Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 42 Cust. #: HPMT-AC47-111714 Material: Insulation Inside Metal Partitions Location: #219-1 Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Mineral Wool - 80% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 43 Cust. #: HPMT-AC48-111714 Material: Insulation Inside Metal Partitions Location: #219-2 Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Mineral Wool - 80% Other - 20%
Lab ID #: 56153 - 44 Cust. #: HPMT-AC49-111714 Material: Interior Window Glazing Location: #219-2 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 56153 - 45 Cust. #: HPMT-AC50-111714 Material: Interior Window Glazing Location: #2-27 Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 46 Cust. #: HPMT-AC51-111714 Material: 6"x6" Tan Floor Tile Location: #3-36 Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **YES** Chrysotile - 10%	Other - 90%
Lab ID #: 56153 - 46a Cust. #: HPMT-AC51-111714 Material: Mastic Location: #3-36 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 47 Cust. #: HPMT-AC52-111714 Material: 6"x6" Tan Floor Tile Location: #3-37 Appearance: Layer: 1 of 4	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 47a Cust. #: HPMT-AC52-111714 Material: Mastic Location: #3-37 Appearance: black,nonfibrous,homogenous Layer: 2 of 4	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 47b Cust. #: HPMT-AC52-111714 Material: 6"x6" Red Floor Tile Location: #3-37 Appearance: red,fibrous,homogenous Layer: 3 of 4	Asbestos Present: **YES** Chrysotile - 10%	Other - 90%
Lab ID #: 56153 - 47c Cust. #: HPMT-AC52-111714 Material: Mastic Location: #3-37 Appearance: black,nonfibrous,homogenous Layer: 4 of 4	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 48 Cust. #: HPMT-AC53-111714 Material: Wall Panels Location: #219-2 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 56153 - 49 Cust. #: HPMT-AC54-111714 Material: Wall Panels Location: #2-23 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 56153 - 50 Cust. #: HPMT-AC55-111714 Material: Drywall Location: #2-29 Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 51 Cust. #: HPMT-AC56-111714 Material: Drywall Location: #2-30 Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 56153 - 52 Cust. #: HPMT-AC57-111714 Material: Drywall Location: #2-30 Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 56153 - 53 Cust. #: HPMT-AC61-111714 Material: White Flooring Location: #3-41 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 80% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 54 Cust. #: HPMT-AC62-111714 Material: White Flooring Location: #3-41 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 56153 - 55 Cust. #: HPMT-AC63-111714 Material: Glue Pod (no ceiling tile) Location: #401-9 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 56153 - 56 Cust. #: HPMT-AC64-111714 Material: Glue Pod (no ceiling tile) Location: #401-9 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 57 Cust. #: HPMT-AC65-111714 Material: Exterior Window Frame Caulk Location: Ext. Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 5%	Other - 95%
Lab ID #: 56153 - 58 Cust. #: HPMT-AC66-111714 Material: Exterior Window Frame Caulk Location: Ext. Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 56153 - 59 Cust. #: HPMT-AC67-111714 Material: Door Frame Caulk Location: Ext. Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 10%	Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 60 Cust. #: HPMT-AC68-111714 Material: Door Frame Caulk Location: Ext. Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 56153 - 61 Cust. #: HPMT-AC69-111714 Material: Top Tar - Roofing Location: Ext. Appearance: black,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 61a Cust. #: HPMT-AC69-111714 Material: Felt Location: Ext. Appearance: black,fibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T

Report To:
Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/18/14
Date Analyzed: 11/21/14
Date Reported: 11/21/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 61b Cust. #: HPMT-AC69-111714 Material: Bottom Tar/Felt Location: Ext. Appearance: black,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 56153 - 62 Cust. #: HPMT-AC70-111714 Material: Top Tar - Roofing Location: Ext. Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 56153 - 62a Cust. #: HPMT-AC70-111714 Material: Felt Location: Ext. Appearance: black,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: **YES** Chrysotile - 25%	Other - 75%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Highland Park Model T
Supplemental Report

Report To:
Mr. Carl Roger
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 14-56153
Date Collected: 11/17/14
Date Received: 11/19/14
Date Analyzed: 11/20/14
Date Reported: 11/20/14

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 56153 - 57 Cust. #: HPMT-AC65-111714 Material: Exterior Window Frame Caulk Location: EXT Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 1.75% POINT COUNT RESULT	Other - 98.25%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

NVLAP Lab Code 102118-0

Apex # **56153**

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.
Web Site: http://apexresearch-inc.com. Email: Bob.Letarte@apexresearchlab.com

Customer Name: AKT Peerless
Address: 22725 Orchard Lake Rd
City, St., Zip: Farmington, MI
Phone: 248-615-1335 Fax: 248-615-1334

Date of Survey: 11-17-14
Project: Highland Park Model T
Project #
Contact Person: Carl Rogers
Email: rogers ce aktpeerless.com

Lab Use Only
Log-In:
Report:
Fax:
Verbal:
Email:

Turn Around Times: (Circle One)

Rush 24 hour
48 hour 72 hour
Other: TTP yes / no
(Test Till Positive)

***Terms and conditions on the other side.

Asbestos: Bulk X Wipe ____ Point Count ____ PCM ____
Lead: Bulk ____ Wipe ____ Air ____ Paint ____ Soil ____
Mold: Bulk ____ Tape ____ BioSIS ____ Other ____ Viable ____
TEM: Bulk/NOP ____ AHERA ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	HPMT-AC01-111714	Plaster / 1-21			
2	HPMT-AC02-111714	" / 1-2			
3	HPMT-AC03-111714	" / 2-25C			
4	HPMT-AC04-111714	" / 219-3			
5	HPMT-AC05-111714	" / 2-32			
6	HPMT-AC06-111714	" / 3-36			
7	HPMT-AC07-111714	" / 3-37			
8	HPMT-AC08-111714	" / 3-38			
9	HPMT-AC09-111714	" / 402-1			
10	HPMT-AC10-111714	Pipe Insulation 0-2" Line / 1-21			
11	HPMT-AC11-111714	" / 2-33			

Relinquished By: _____ Date: 11-18-14
Received By: _____ Date: 11/18/14
Relinquished By: _____ Date: _____
Relinquished By: _____ Date: _____

Revision Date: June/2011

APEX Research, Inc.

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Web Site: http://apexresearch-inc.com. Email: Bob.Letarte@apexresearchlab.com

Customer Name: AKT Peerless
Address: "
City, St., Zip: "
Phone: " Fax: "

Date of Survey: 11-17-14
Project: Highland Park Motel T
Project #
Contact Person: Carl Rogers
Email: rogersc@aktpeerless.com

Lab Use Only
Log-In:
Report:
Fax:
Verbal:
Email:

Turn Around Times: (Circle One)

Rush 24 hour 48 hour 72 hour Other: TTP yes / no (Test Till Positive)

***Terms and conditions on the other side.

Asbestos: Bulk X Wipe ____ Point Count ____ PCM ____
Lead: Bulk ____ Wipe ____ Air ____ Paint ____ Soil ____
Mold: Bulk ____ Tape ____ BioSIS ____ Other ____ Viable ____
TEM: Bulk/NOP ____ AHERA ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
12	HPMT-AC12-111714	Pipe Insul. 0-2" Line / 1th Floor Landing			
13	HPMT-AC13-111714	Pipe Fittings 0-2" Line / 2-27			
14	HPMT-AC14-111714	" / 3-36			
15	HPMT-AC15-111714	" / Penthouse			
16	HPMT-AC16-111714	12" Pinhole Ceiling tile / 1-1			
17	HPMT-AC17-111714	" / 1-1			
18	HPMT-AC18-111714	Black 9x9 Floor tile / 1-4			
19	HPMT-AC19-111714	" / 2-25B			
20	HPMT-AC20-111714	Pipe Insulation 2-1" Line / 1-5			
21	HPMT-AC21-111714	" / Penthouse			
22	HPMT-AC22-111714	" / Penthouse			

Relinquished By: [signature] Date: 11-18-14
Received By: [signature] Date: 11/18/14
Relinquished By: Date:
Relinquished By: Date:

Revision Date: June/2011

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Web Site: http://apexresearch-inc.com. Email: Bob.Letarte@apexresearchlab.com

Customer Name: AKT Peerless
Address: 22725 Orchard Lake Rd
City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 11-17-14
Project: High And Park Model T
Project #
Contact Person: Carl Rogers
Email: rogersc@aktpeerless.com

Lab Use Only
Log-In:
Report:
Fax:
Verbal:
Email:

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other: TTP yes / no (Test Till Positive)

***Terms and conditions on the other side.

Asbestos: Bulk X Wipe ____ Point Count ____ PCM ____
Lead: Bulk ____ Wipe ____ Air ____ Paint ____ Soil ____
Mold: Bulk ____ Tape ____ BioSIS ____ Other ____ Viable ____
TEM: Bulk/NOP ____ AHERA ____ EPA Level II ____ Other ____

Lab ID		Customer ID #	Material/Location	Volume	Area	Results
23		HPMT-AC23-111714	Pipe Fittings on 2-4" Lines / Penthouse			
24		HPMT-AC24-111714	" " / Penthouse			
25		HPMT-AC25-111714	" " / Penthouse			
		~~HPMT-AC26-111714~~				
		~~HPMT-AC27-111714~~				
26		HPMT-AC28-111714	Pipe Insulation Debris / 1-7			
27		HPMT-AC29-111714	" / 1-7			
		~~HPMT-DESO-111714~~				
28		HPMT-AC31-111714	Brown Sheeting on Floor / 1-19			
29		HPMT-AC32-111714	" / 1-19			
30		HPMT-AC33-111714	Cloth electrical Tape / 1-20			

Relinquished By: _____ Received By: _____ Relinquished By: _____ Relinquished By: _____
Date: 11-18-14 Date: _____ Date: _____ Date: _____

Revision Date: June/2011

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Web Site: http://apexresearch-inc.com. Email: Bob.Letarte@apexresearchlab.com

Customer Name: AKT Peerless
Address: 22725 Orchard Lake Rd
City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 11-17-14
Project: Highland Park Model T
Project #
Contact Person: Carl Rogers
Email: rogersc@aktpeerless.com

Lab Use Only
Log-In:
Report:
Fax:
Verbal:
Email:

Turn Around Times: (Circle One)

Rush 24 hour
48 hour 72 hour
Other: TTP yes / no
(Test Till Positive)

***Terms and conditions on the other side.

Asbestos: Bulk X Wipe ____ Point Count ____ PCM ____
Lead: Bulk ____ Wipe ____ Air ____ Paint ____ Soil ____
Mold: Bulk ____ Tape ____ BioSIS ____ Other ____ Viable ____
TEM: Bulk/NOP ____ AHERA ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
31	HPMT-AC34-111714	clothelectrical tape / 1-20			
32	HPMT-AC35-111714	" / 1-20			
	~~HPMT-AC36-111714~~				
	HPMT-AC37-111714				
33	HPMT-AC38-111714	Decorative Plaster / 1-1			
34	HPMT-AC39-111714	" / 1-1			
35	HPMT-AC40-111714	" / 2-27			
36	HPMT-AC41-111714	" / 2-28			
37	HPMT-AC42-111714	" / 2-29			
38	HPMT-AC43-111714	" / 207-7			
39	HPMT-AC44-111714	" / 207-9			

Relinquished By: [signature]
Date: 11-18-14

Received By: [signature]
Date:

Relinquished By:
Date:

Relinquished By:
Date:

Revision Date: June/2011

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Web Site: http://apexresearch-inc.com. Email: Bob.Letarte@apexresearchlab.com

Customer Name: AKT Peerless
Address: 2272S Orchard Lake Rd
City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 11-17-14
Project: Highland Park Model T
Project #
Contact Person: Carl Rogers
Email: rogersc@aktpeerless.com

Lab Use Only
Log-In:
Report:
Fax:
Verbal:
Email:

Turn Around Times: (Circle One)

Rush 24 hour
48 hour 72 hour
Other: TTP yes / no
(Test Till Positive)

***Terms and conditions on the other side.

Asbestos: Bulk X Wipe ____ Point Count ____ PCM ____
Lead: Bulk ____ Wipe ____ Air ____ Paint ____ Soil ____
Mold: Bulk ____ Tape ____ BioSIS ____ Other ____ Viable ____
TEM: Bulk/NOP ____ AHERA ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
40	HPMT-AC45-111714	Executive Garage Window Glazing / Exec Garage			
41	HPMT-AC46-111714	" " "			
42	HPMT-AC47-111714	material inside metal partitions / 219-1			
43	HPMT-AC48-111714	" / 219-2			
44	HPMT-AC49-111714	Interior window glazing / 219-2			
45	HPMT-AC50-111714	" " / 2-27			
46	HPMT-AC51-111714	6"x6" TAN Floor Tile / 3-36			
47	HPMT-AC52-111714	" " / 3-37			
48	HPMT-AC53-111714	wall panel / 219-2			
49	HPMT-AC54-111714	" / 2-23			
50	HPMT-AC55-111714	Drywall / 2-29			

Relinquished By: _____ Received By: _____ Relinquished By: _____ Relinquished By: _____
Date: 11-18-14 Date: _____ Date: _____ Date: _____

Revision Date: June/2011

OCT 16 2014

APEX Research, Inc.

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Web Site: http://apexresearch-inc.com. Email: Bob.Letarte@apexresearchlab.com

Customer Name: AKT Peerless
Address: 22725 Orchard Lake Rd
City, St., Zip: Farmington
Phone: 248-615-1333 Fax: 248-615-1354

Date of Survey: 11-17-14
Project: HP Model T
Project #
Contact Person: Carl Rogers
Email: rogersc@aktpeerless.com

Lab Use Only
Log-In:
Report:
Fax:
Verbal:
Email:

Turn Around Times: (Circle One)

Rush 24 hour 48 hour 72 hour Other: TTP yes / no (Test Till Positive)

***Terms and conditions on the other side.*

Asbestos: Bulk X Wipe ____ Point Count ____ PCM ____
Lead: Bulk ____ Wipe ____ Air ____ Paint ____ Soil ____
Mold: Bulk ____ Tape ____ BioSIS ____ Other ____ Viable ____
TEM: Bulk/NOP ____ AHERA ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
51	HPMT-AC56-111714	Drywall / 2-30			
52	HPMT-AC57-111714	" " / 2-30			
	~~AC58~~				
	~~AC59~~				
	~~AC60~~				
53	HPMT-AC61-111714	White flooring / 3-41			
54	HPMT-AC62-111714	" / 3-41			
55	HPMT-AC63-111714	12" pinhole ceiling tile w/glue pods/ ~~3-41~~ 401-9			
56	HPMT-AC64-111714	" / ~~3-41~~ 401-9			
57	HPMT-AC65-111714	Exterior window frame caulk / EXT			
58	HPMT-AC66-111714	" / EXT			

Relinquished By: _____ Date: 11-18-14
Received By: _____ Date: _____
Relinquished By: _____ Date: _____
Relinquished By: _____ Date: _____

Revision Date: June/2011

APEX Research, Inc.

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Web Site: http://apexresearch-inc.com. Email: Bob.Letarte@apexresearchlab.com

Customer Name: AKT Peerless
Address: 22725 Orchard Lake Rd
City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1554

Date of Survey: 11-17-14
Project: Highland Park Model T
Project #
Contact Person: Carl Rogers
Email: rogersc@aktpeerless.com

Lab Use Only
Log-In:
Report:
Fax:
Verbal:
Email:

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other: TTP yes / no
(Test Till Positive)

***Terms and conditions on the other side.

Asbestos: Bulk X Wipe ____ Point Count ____ PCM ____
Lead: Bulk ____ Wipe ____ Air ____ Paint ____ Soil ____
Mold: Bulk ____ Tape ____ BioSIS ____ Other ____ Viable ____
TEM: Bulk/NOP ____ AHERA ____ EPA Level II ____ Other ____

Lab ID		Customer ID #	Material/Location	Volume	Area	Results
59		HPMT-AC67-111714	Door Frame Caulk / EXT			
60		HPMT-AC68-111714	" / EXT			
61		HPMT-AC69-111714	Roofing / EXT			
62		HPMT-AC70-111714	" / EXT			

Relinquished By: _____
Date: 11-18-14

Received By: _____
Date: _____

Relinquished By: _____
Date: _____

Relinquished By: _____
Date: _____

Revision Date: June/2011

NOV 2 0 2014

Appendix E

Hazardous/Universal Waste Inventory

AKTPEERLESS

HAZARDOUS MATERIALS INVENTORY

CLIENT: Tetra Tech, Inc.
PROJECT NO: 3010f2-2-194
PROJECT: HPMT
14534 Woodward Ave
Highland Park, MI

Item	Item Group	Location	Approximate Quantity
Fluorescent Light Tube	Mercury	FS 1-1, 1-2, 1-3, 1-4, 1-5, 1-8, 1-9, 1-10a, 1-12, 1-13, 1-18, 1-19, 1-20, 2-24, 2-25a, 2-25b, 2-25c, 2-26, 2-27, 2-28, 2-29, 207-1, 207-7, 207-8, 201-1, 201-2, 201-3, 207-9, 200, 206-2, 206-3, 2-34, 219-1, 219-2, 219-3, 3-36, 3-37, 3-38, 3-39, 3-43, 3-45, 414-1, 414-2, 414-3, 413-1, 411-1, 409-1, 409-2, 407-1, 407-2, 407-3, 406-1, 406-2, 405-1, 405-2, 403-1, 403-2, 401-1, 401-2, 401-3, 401-5, 401-6, 401-7, 401-9, 402-1, 404-1, 4-46, 4-47, 412-1, 400	1,012 (Estimate only. Additional tubes may be comingled with debris)
Light Ballast	PCB/Mineral Oil	FS 1-1, 1-2, 1-3, 1-4, 1-5, 1-8, 1-9, 1-10a, 1-12, 1-13, 1-18, 1-19, 1-20, 2-24, 2-25a, 2-25b, 2-25c, 2-26, 2-27, 2-28, 2-29, 207-1, 207-7, 207-8, 201-1, 201-2, 201-3, 207-9, 200, 206-2, 206-3, 2-34, 219-1, 219-2, 219-3, 3-36, 3-37, 3-38, 3-39, 3-43, 3-45, 414-1, 414-2, 414-3, 413-1, 411-1, 409-1, 409-2, 407-1, 407-2, 407-3, 406-1, 406-2, 405-1, 405-2, 403-1, 403-2, 401-1, 401-2, 401-3, 401-5, 401-6, 401-7, 401-9, 402-1, 404-1, 4-46, 4-47, 412-1, 400	510 (Estimate only. Additional ballasts may be comingled with debris)
Thermostat	Mercury	FS 2-27, 411-1, 406-1	3
Elevator Control Equipment	Mercury	FS P-2	2
Air Conditioning Units, Drinking Fountain	CFC	FS 1-22, 1-23, 2-24, 2-27, 206-1, 219-1, 3-36, 3-45, 413-2, 411-1, 406-1, 402-1	14 (13 AC Units, 1 Drinking Fountain)
Lube Oil	Oil-filled Machines	FS P-2	2 Gear Boxes (2-4 Gal Each est)
Elevator Lube Oil	Oils	FS 1-17, P-2	1 gal (20% full) 4 cans (1-30% full, 3-empty)

Appendix F

Paint Chip Sample Laboratory Reports and Chain of Custody Record

Fibertec
environmental
services

Monday, December 08, 2014

Fibertec Project Number:	65550
Project Identification:	Highland Park Model T (3010f2-2) /3010f2-2
Submittal Date:	12/01/2014

Mr. James Fox
AKT Peerless Environ. Svcs, Inc. - Farm. Hills
22725 Orchard Lake Road
Farmington Hills, MI 48336

Dear Mr. Fox,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/cdh

Enclosures

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP01-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Beige/Yellow**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-001** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**1.9**		%	0.00079	2600	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP02-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Blue/White**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-002** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.36**		%	0.00019	630	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 65550
Laboratory Sample Number: 65550-003

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP03-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Green/Tan**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-003** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.22**		%	0.00010	280	12/04/14	PT14L04F	12/08/14	T414L08A	JLH

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP04-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Black**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-004** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.33**		%	0.00010	340	12/04/14	PT14L04F	12/08/14	T414L08A	JLH

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 65550
Laboratory Sample Number: 65550-005

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP05-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Beige/Green/Yellow**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-005** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.27**		%	0.00010	270	12/04/14	PT14L04F	12/08/14	T414L08A	JLH

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 65550
Laboratory Sample Number: 65550-006

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP06-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Light Brown/Green/Tan**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-006** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.19**		%	0.00010	340	12/04/14	PT14L04F	12/08/14	T414L08A	JLH

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP07-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Beige/Green**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-007** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.12**		%	0.00010	280	12/04/14	PT14L04F	12/08/14	T414L08A	JLH

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP08-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**White**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-008** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**18**		%	0.0078	26000	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 65550
Laboratory Sample Number: 65550-009

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP09-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Brown/Green/Tan**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-009** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**4.2**		%	0.0018	6000	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP10-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Beige/Dark Green**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-010** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**6.7**		%	0.0082	27000	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 65550
Laboratory Sample Number: 65550-011

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP11-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Green/Gray**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-011** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**1.1**		%	0.00044	1500	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 65550
Laboratory Sample Number: 65550-012

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP12-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Tan/White/Silver/Gray**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-012** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.43**		%	0.00020	650	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP13-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Gray (Exterior)**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-013** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**4.3**		%	0.0018	6200	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 65550
Laboratory Sample Number: 65550-014

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP14-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Brown/Dark Gray**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-014** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.58**		%	0.00037	1200	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

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11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP15-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Geen/Beige**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-015** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.095**		%	0.00010	310	12/04/14	PT14L04F	12/08/14	T414L08A	JLH

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 65550
Laboratory Sample Number: 65550-016

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP16-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Wood Grain Pattern**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-016** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**8.9**		%	0.0097	32000	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 65550
Laboratory Sample Number: 65550-017

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP17-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Blue/Brown/Green**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-017** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.63**		%	0.00032	1100	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP18-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**Green**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-018** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**3.6**		%	0.0017	5800	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 65550
Laboratory Sample Number: 65550-019

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**HPMT-LP19-111114**	Chain of Custody:	**130520**
Client Project Name:	**Highland Park Model T (3010f2-2)**	Sample No:	**White/Gray/Blue**	Collect Date:	**11/11/14**
Client Project No:	**3010f2-2**	Sample Matrix:	**Other (Solid)**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Lead Content (Paint) (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 65550-019** **Matrix: Other (Solid)**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Lead	**0.90**		%	0.00037	1200	12/04/14	PT14L04F	12/08/14	T414L08B	JLH

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number(s):

E-10395 (KS)

T104704518-13-1 (TX)

Fibertec environmental services

Analytical Laboratory
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Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 130520
PAGE 1 of 2

Client Name: AKT Peerless
Contact Person: Jim Fox/248-302-3571/foxcj@aktpeerless.com
Project Name/ Number: Highland Park Model T 3010f2-2
QUOTE#
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Number	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PARAMETERS: Lead Content %	Remarks
	11/11/14	—		HPMT-LP01-111114	X	1	N	✓	Beige/Yellow
	11/11/14	—		HPMT-LP02-111114	X	1	N	✓	Blue/White
	11/11/14	—		HPMT-LP03-111114	X	1	N	✓	Green/TAN
	11/11/14	—		HPMT-LP04-111114	X	1	N	✓	BLACK
	11/11/14	—		HPMT-LP05-111114	X	1	N	✓	Beige/Green/Yellow
	11/11/14	—		HPMT-LP06-111114	X	1	N	✓	Light Brown/Green/TAN
	11/11/14	—		HPMT-LP07-111114	X	1	N	✓	Beige/Green
	11/11/14	—		HPMT-LP08-111114	X	1	N	✓	White
	11/11/14	—		HPMT-LP09-111114	X	1	N	✓	Brown/Green/TAN
	11/11/14	—		HPMT-LP10-111114	X	1	N	✓	Beige/DARK Green

Turnaround: ☐ 24 hour RUSH (surcharge applies); ☐ 48 hour RUSH (surcharge applies); ☐ 72 hour RUSH (surcharge applies); ☒ Standard (5-7 bus. days); ☐ Other: Specify

Matrix Code: S Soil; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify Paint Chip

☐ FES Drilling Services

Deliverables: ☐ Level 2; ☐ Level 3; ☐ Level 4; ☐ EDD

Comments:
Please email results to. foxcj@aktpeerless.com

Relinquished By:	Date/ Time	Received By:
James C Fox	12/1/14 1730	
Relinquished By:	Date/ Time	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt: Rm temp

COC Revision: February, 2013

TERMS & CONDITIONS ON BACK

Fibertec environmental services

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Fax: 231 775 8584

Industrial Hygiene Services, Inc.
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Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
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Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 130519
PAGE 2 of 2

Client Name: AKT Peerless
Contact Person: Jim FOX
Project Name/ Number: 3010F2-2 Highland Park Model T
QUOTE#
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Number ~~Descriptor~~	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PARAMETERS: Lead Content %	Remarks
	11/11/14	—		HPMT-LP11-111114	X	1	N	✓	Green/Gray
	11/11/14	—		HPMT-LP12-111114	X	1	N	✓	TAN/White/Silver/Gray
	11/11/14	—		HPMT-LP13-111114	X	1	N	✓	Gray (Exterior)
	11/11/14	—		HPMT-LP14-111114	X	1	N	✓	Brown/Dark Gray
	11/11/14	—		HPMT-LP15-111114	X	1	N	✓	Green/Beige
	11/11/14	—		HPMT-LP16-111114	X	1	N	✓	Wood Grain Pattern
	11/11/14	—		HPMT-LP17-111114	X	1	N	✓	Blue/Brown/Green
	11/11/14	—		HPMT-LP18-111114	X	1	N	✓	Green
	11/11/14	—		HPMT-LP19-111114	X	1	N	✓	White/Gray/Blue

Turnaround:
- [ ] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [x] Standard (5-7 bus. days)
- [ ] Other: Specify

Matrix Code: S Soil; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify Paint Chip

- [ ] FES Drilling Services

Deliverables:
- [ ] Level 2
- [ ] Level 3
- [ ] Level 4
- [ ] EDD

Comments:

	Date/ Time	
Relinquished By: James C. Fox	12/6/14 17:30	Received By:
Relinquished By:	Date/ Time	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

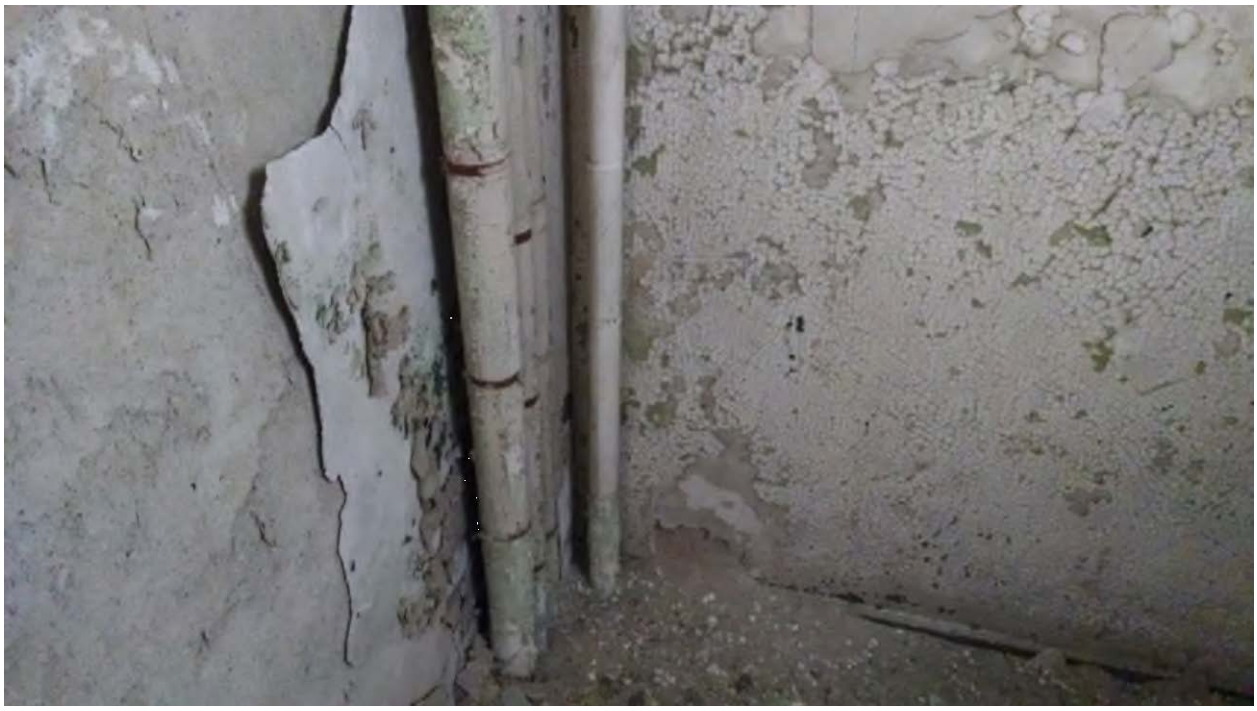
LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt: Rm temp

COC Revision: February, 2013

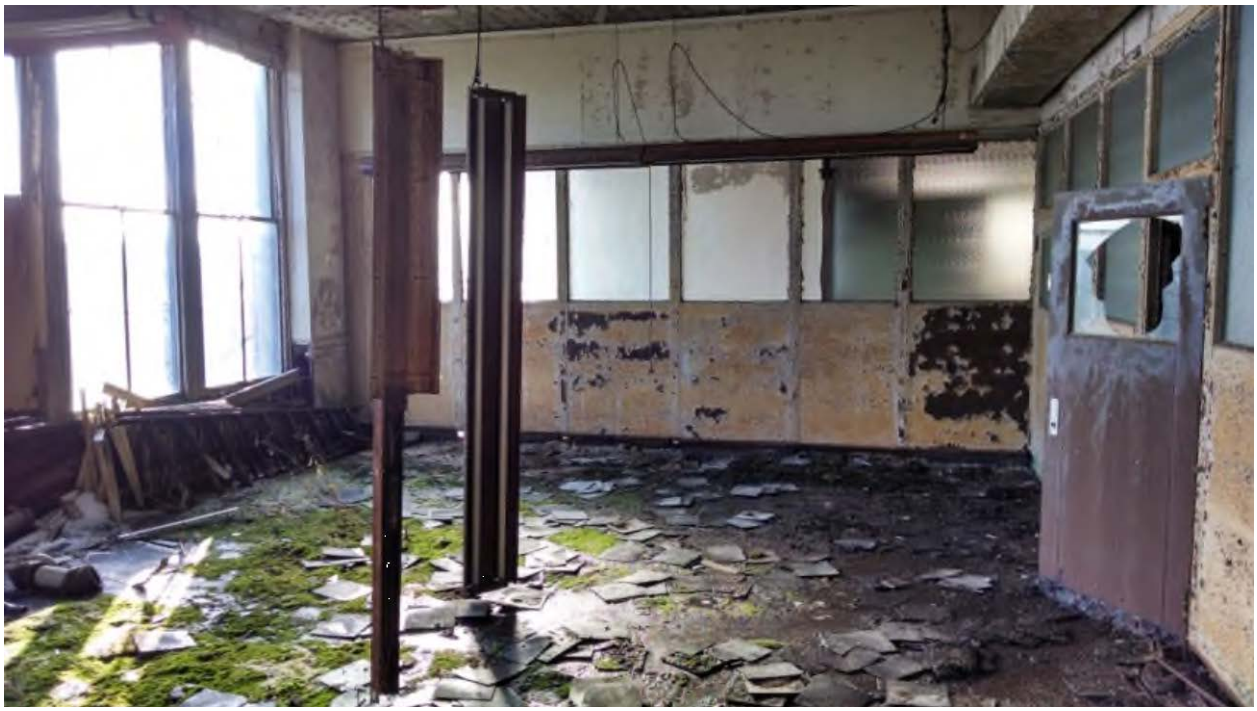
TERMS & CONDITIONS ON BACK

Appendix G

Photographic Log



PHOTOGRAPH NO. 1:THERMAL SYSTEM INSULATION ACM (TYPICAL)



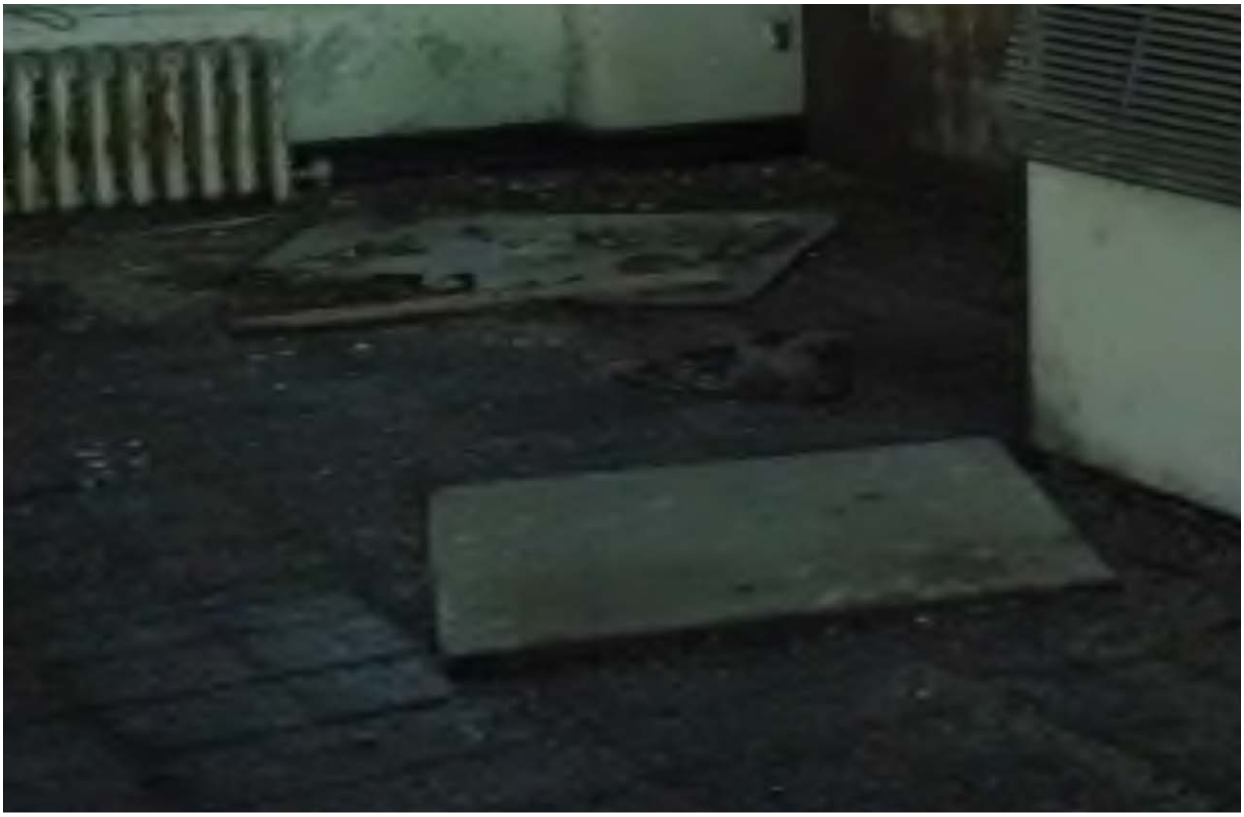
PHOTOGRAPH NO. 2: WINDOW CAULK AND FLOOR TILE AREAS (TYPICAL)

AKTPEERLESS

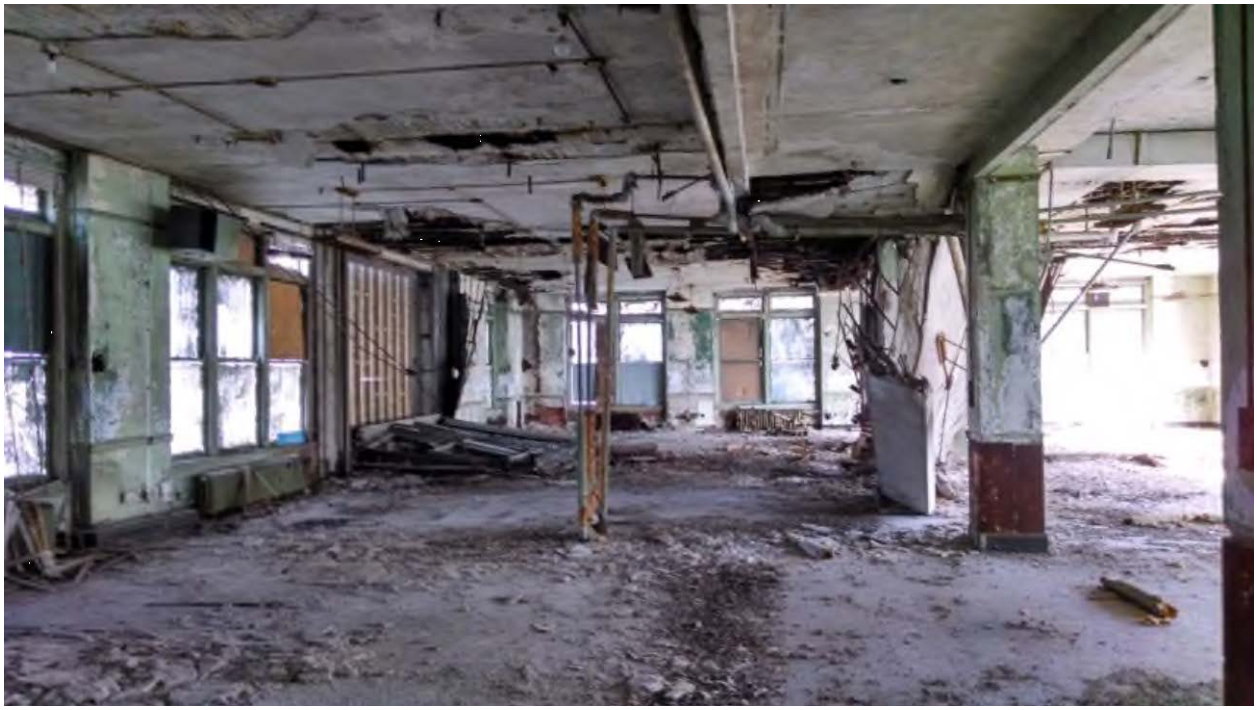
PHOTOGRAPHS
HPMT
14534 Woodward Avenue
Highland Park, Michigan

DATE: 12/19/14

PROJECT NUMBER: 3010f2-2-194



PHOTOGRAPH NO. 3: FLOOR TILE ACM (TYPICAL)



PHOTOGRAPH NO. 4: WINDOW CAULK, THERMAL SYSTEM INSULATION AND FLOOR TILE ACM AREA (TYPICAL)